

ABSTRACT OF THE DISCLOSURE

Solar simulator that includes a pulsed radiation source for generating electromagnetic radiation, and at least one mirror element is arranged in a region of the radiation source. The at least one mirror element is structured and arranged to reflect components of radiation from the radiation source essentially in an intended irradiation direction. Further, the at least one mirror element, formed at least in part of metal, is positioned adjacent to the radiation source and is structured to receive at least a part of an ignition voltage of the pulsed radiation source. The instant abstract is neither intended to define the invention disclosed in this specification nor intended to limit the scope of the invention in any way.